INTERNATIONAL SEARCH REPORT

International Application No T/BR2004/000129

A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER B65D43/02				
According to	International Patent Classification (IPC) or to both national classification	ion and IPC			
B. FIELDS					
Minimum do IPC 7	cumentation searched (classification system followed by classification B65D	n symbols)			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic da	ata base consulted during the International search (name of data base	e and, where practical, search terms used)			
EPO-Internal					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	·			
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.		
х	US 4 476 993 A (KROUT GERALD R) 16 October 1984 (1984-10-16)		1-5		
Υ	column 2, line 18 - column 3, line figures 2-4	e 42;	8		
Υ	US 4 512 493 A (VON HOLDT JOHN W) 23 April 1985 (1985-04-23) figures 1,2		8		
A	EP 0 147 507 A (SANNER FRIEDR GMBH CO KG) 10 July 1985 (1985-07-10) figures 1,2		1-8		
А	US 3 557 998 A (COLLIE STAFFORD D 26 January 1971 (1971-01-26) figures 1,4)	1-8		
Ì		/			
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X Furt	l her documents are listed in the continuation of box C.	X Patent family members are listed i	n annex.		
° Special categories of cited documents :					
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international invention "E" earlier document but published on or after the international invention "Y" document of particular relevance: the claimed invention					
"L" docume which	tate ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another	'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention			
O' document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled					
P document published prior to the international filing date but later than the priority date claimed in the art. *&* document member of the same patent family					
Date of the actual completion of the International search Date of mailing of the international search report					
10 November 2004 18/11/2004					
Name and	malling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Fitterer, J			

INTERNATIONAL SEARCH REPORT

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages GB 2 236 099 A (METAL BOX PLC) 1-8 Α 27 March 1991 (1991-03-27) figures 2,3 US 2003/089715 A1 (SENE ANTONIO ROBERTO ET AL) 15 May 2003 (2003-05-15) 1-8 Α figure 2

INTERNATIONAL SEARCH REPORT

Information on patent family members

rnational Application No

	tent document in search report		Publication date		Patent family member(s)	Publication date
US	4476993	Α	16-10-1984	NONE		
US	4512493	A	23-04-1985	US US US JP	4452382 A 4380305 A 4420093 A 60045135 A	05-06-1984 19-04-1983 13-12-1983 11-03-1985
EP	0147507	A	10-07-1985	DE EP	3346928 A 0147507 A	
US	3557998	Α	26-01-1971	NONE		
GB	2236099	A	27-03-1991	NONE		
US	2003089715	A1	15-05-2003	BR AU WO CA DE EP JP MX ZA	0003727 A 7374601 A 0198165 A 2404967 A 60105809 D 1292505 A 2003535780 T PA02012609 A 200207065 A	02-01-2002 2 27-12-2001 1 27-12-2001 1 28-10-2004 2 19-03-2003 02-12-2003 10-04-2003

PATENT COOPERATION TREATY



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) REC'D 1 5 NOV 2005

(PCT Article 36 and Rule 70)

MIPO **PCT**

Applicant's or agent's file reference BLATA-005	FOR FURTHER ACT	ON s	ee Form PCT/IPEA/416			
International application No. PCT/BR2004/000129	International filing date (day 22.07.2004	<i>ıl</i> month/year)	Priority date (day/month/yea 24.07.2003	ar)		
International Patent Classification (IPC) or national classification and IPC B65D43/02						
Applicant BRASILATA S.A. EMBALAGENS METALICAS et al.						
This report is the international pre Authority under Article 35 and train	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total	of 5 sheets, including this	cover sheet.				
•	3. This report is also accompanied by ANNEXES, comprising:					
a. 🖾 sent to the applicant and t						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
☐ Box No. I Basis of the op	oinion	•				
☐ Box No. II Priority						
☐ Box No. III Non-establishr	ment of opinion with regar	d to novelty, inventive	step and industrial applic	ability		
☐ Box No. IV Lack of unity of						
applicability; c	tement under Article 35(2) litations and explanations	with regard to novelty supporting such stater	r, inventive step or industr nent	ial		
Box No. VI Certain docum						
	ts in the international appli					
☐ Box No. VIII Certain observ	vations on the internations	l application				
Date of submission of the demand	Date of completion of the	nis report				
22.02.2005		20.10.2005				
Name and mailing address of the internati preliminary examining authority:	Authorized Officer		Scaling a Patonia Marie			
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52 Fax: +49 89 2399 - 4465	23656 epmu d	Fitterer, J Telephone No. +49 89	2399-7916	Office of the control		



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/BR2004/000129

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	Box No. I	Basis of the report
1.	With regard filed, unles	d to the language, this report is based on the international application in the language in which it was s otherwise indicated under this item.
	☐ This reward	eport is based on translations from the original language into the following language , is the language of a translation furnished for the purposes of:
	☐ pul	ernational search (under Rules 12.3 and 23.1(b)) plication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)
2.	have been	d to the elements* of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>
	Description	n. Pages
	1-9	as originally filed
	Claims, Nu	mbers
	1-8	filed with the demand
	Drawings,	Sheets
	1/4-4/4	as originally filed
	□ a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.	☐ The a	mendments have resulted in the cancellation of:
		e description, pages e claims, Nos.
	_ □ the	e drawings, sheets/figs e sequence listing <i>(specify)</i> :
		y table(s) related to sequence listing (specify):
4.	had not b	report has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)).
		e description, pages e claims, Nos.
	☐ th	e drawings, sheets/figs e sequence listing <i>(specify)</i> :
		e sequence listing (<i>specify)</i> . ny table(s) related to sequence listing <i>(specify)</i> :
	* If i	tem 4 applies, some or all of these sheets may be marked "superseded."



Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3,6-8

No: Claims 1,2,4,5

Inventive step (IS)

Yes: Claims Claims 6,7

Industrial applicability (IA)

Yes: Claims

1-5,8 1-8

No:

Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following documents:

D1: US-A-4 476 993 (KROUT GERALD R) 16 October 1984 (1984-10-16)

D2: US-A-4 512 493 (VON HOLDT JOHN W) 23 April 1985 (1985-04-23)

D3: US 2003/089715 A1 (SENE ANTONIO ROBERTO ET AL) 15 May 2003

(2003-05-15)

2 INDEPENDENT CLAIM

Claim 1 does not meet the criteria of Article 33(1) PCT, because its subject-matter is not new in the sense of Article 33(2) PCT.

Document D1 discloses (cf. column 2, line 18 - column 3, line 42; figures 2-4) a plastic lid suitable for a can of the type which comprises a tubular body having a lower end and an upper end carrying a seat for the hermetic seating of a lid (14) which comprises, in a single piece, a sealing portion, removably seated and retained in the seat of the can and which is provided with an external edge (22) projecting radially outwardly from the seat; a tamper evident portion (26) comprising a lower skirt, to be seated around part of the upper end (20) of the body (12) and which is superiorly incorporated, through bridges (cf. 24), to the external edge (22) of the sealing portion, the tamper evident portion (26) presenting an interruption (between the pull tabs (40, 42); see figure 4) extending along the height of the lower skirt, the sealing portion incorporating, at its external edge (22), a gripping tab projecting through said interruption (between the pull tabs (40, 42); see figure 4) of the tamper evident portion (26), said bridges (cf. 24) being broken when submitted to a certain pulling force, which separates the tamper evident portion (26) from the sealing portion upon the first opening of the lid (14), the bridges (cf. 24) being axially disposed around a circumferential extension of the upper end (20) of the body (12), in order to connect an upper edge of the lower skirt of the tamper evident portion (26) with the external edge (22) of the sealing portion in points which are angularly spaced apart, said gripping tab maintaining a gap with the lower skirt of the tamper evident portion (26) (said gap being the cuts between

PCT/BR2004/000129

the portion (22) and the pull tabs (40, 42), see figure 4).

All features of claim 1 are therefore disclosed in combination in D1.

3 DEPENDENT CLAIMS

3.1 Dependent claims 2-5, 8 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT), the reasons being as follows:

All features of claims 2, 4, 5 are known in combination from D1, figures 2-4.

The subject-matter of claim 3 differs from the construction according to D1 in that the upper end of the body comprises a double seam securing an annular wall in which is defined the seat for the seating of the lid. However, this feature is well known (see for example D3, figure 2), thus the person skilled in the art would incorporate said feature, without the exercise of inventive skill, where circumstances make it desirable.

The additional feature of claim 8 has already been employed for the same purpose in a similar lid for a container, see document D2, figures 1, 2. It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply this feature with corresponding effect to a lid according to document D1, thereby arriving at a lid according to claim 8 without the exercise of inventive skill.

3.2 A bridge according to claim 6 is not disclosed in the available prior art documents. Furthermore, there is no hint which would lead the skilled person to incorporate such a bridge in the lid of D1. Hence, the combination of the features of dependent claim 6 is neither known from, nor rendered obvious by, the available prior art.

The subject-matter of claim 6 (and claim 7 which depends on claim 6) is new, inventive and industrially applicable.

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CLAIMS

1. An improvement in a plastic lid for a can of the type which comprises a tubular body (10) having a lower end (11) and an upper end (13) carrying a seat for the hermetic seating of a lid (20) which comprises, in a single piece, a sealing portion (21), removably seated and retained in the seat (16) and provided with an external edge projecting radially outwardly from the seat (16); a tamper evident portion (25) comprising a lower skirt (25a), to be seated around part of the upper end (13) of the tubular body (10) and which is superiorly incorporated, through bridges (26), to the external edge (21b) of the sealing portion (21), the tamper evident portion (25) presenting an interruption (25c) extending along at least part of the height of the the sealing portion (25a), lower skirt incorporating, at its external edge (21b), a gripping tab (27) projecting through said interruption (25c) of the tamper evident portion (25), said bridges (26) being broken when submitted to a certain pulling force, which separates the tamper evident portion (25) from the sealing portion (21) upon the first opening of the lid (20), characterized in that the bridges (26) are axially disposed around a circumferential extension of the upper end (13) of the tubular body (10), in order to connect an upper edge (25b) of the lower skirt (25a) with the external edge (21b) of the sealing portion (21) in points which are angularly spaced apart, said gripping tab (27) maintaining a gap 30 (29) with the lower skirt (25a). set forth in claim as The

improvement characterized in that the external end (21b) of the sealing portion (21) incorporates a small cylindrical circumferential flap (21c) surrounding a lower

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extension of the upper end (13) of the tubular body (10) from which the bridges (26) depend.

- 3. The improvement as set forth in any of claims 1 or 2, in which the upper end (13) of the tubular body (10) secures, by a double seam (14), an annular wall (15) in which is defined the seat (16) for the seating of the lid (20), characterized in that the lower skirt (25a) incorporates an internal circumferential projection (25h), axially spaced from the external edge (21b) of the sealing portion (21) and which is dimensioned to be seated and axially locked under the double seam (14), around the tubular body (10).
 - 4. The improvement as set forth in claim 1, characterized in that the gripping tab (27) is substantially leveled with the lower skirt (25a).
 - 5. The improvement as set forth in claim 1, characterized in that the tamper evident portion (25) comprises at least one breakable lock (28) connecting the gripping tab (27) with the lower skirt (25a).
- improvement forth 20 as set characterized in that the lower skirt (25a) incorporates the ends of a bridge the circumferentially extending over interruption (25c) of the tamper evident portion (25) and over the 25 gripping tab (27), a first end (25e) of said ends of the bridge (25f) being incorporated to the lower skirt (25a) through connecting means (25f) which are broken when said first end (25e) is forced away from the lower skirt (25a), in order to liberate the manual access to the gripping tab (27). 30
 - 7. The improvement as set forth in claim 6, characterized in that the bridge (25d) has its first end (25e) superposed to the lower skirt (25a) and incorporated thereto by two connecting means (25e) which are circumferentially spaced apart.



8. The improvement as set forth in claim 1, characterized in that the upper end (21b) of the sealing portion (21) incorporates a circumferential upper rib (25g), projecting over the upper end (13) of the tubular body (10), so as to fit loosely and telescopically in the lower end (11) of another tubular body (10) stacked over said tubular body (10).